

## SEQUENCE LISTING

<110> Garvan Institute of Medical Research

5 <120> Method of modulating bone growth, remodeling and adiposity

<130> 501789/MRO

<160> 20

10 <170> PatentIn version 3.1

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<211> 1180

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<213> human neuropeptide Y1 receptor

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<221> CDS

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5 Ile Ala Phe Thr Ile Ser Leu Leu Val Gln Tyr Ile Leu Pro Leu  
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10 Val Cys Leu Thr Val Ser His Thr Ser Val Cys Arg Ser Ile Ser Cys  
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15 Gly Leu Ser Asn Lys Glu Asn Arg Leu Glu Glu Asn Glu Met Ile Asn  
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35 Ser Gln Leu Ser Ser Ser Ser Lys Phe Ile Pro Gly Val Pro Thr Cys  
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40 Lys Arg Ser Val Thr Arg Ile Lys Lys Arg Ser Arg Ser Val Phe Tyr  
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	Ile Ala Met Ser Thr Met His Thr Asp Val Ser Lys Thr Ser Leu Lys	
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20 His Leu Pro Leu Ala Val Ile Phe Thr Leu Ala Leu Ala Tyr Gly Ala  
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Val Ile Ile Leu Gly Val Ser Gly Asn Leu Ala Leu Ile Ile Ile Ile  
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25 Leu Lys Gln Lys Glu Met Arg Asn Val Thr Asn Ile Leu Ile Val Asn  
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30 Leu Ser Phe Ser Asp Leu Leu Val Ala Val Met Cys Leu Pro Phe Thr  
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35 Phe Val Tyr Thr Leu Met Asp His Trp Val Phe Gly Glu Thr Met Cys  
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40 Lys Leu Asn Pro Phe Val Gln Cys Val Ser Ile Thr Val Ser Ile Phe  
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45 Ser Leu Val Leu Ile Ala Val Glu Arg His Gln Leu Ile Ile Asn Pro  
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Arg Gly Trp Arg Pro Asn Asn Arg His Ala Tyr Ile Gly Ile Thr Val  
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50 Ile Trp Val Leu Ala Val Ala Ser Ser Leu Pro Phe Val Ile Tyr Gln  
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Ser Tyr Thr Thr Leu Leu Leu Val Leu Gln Tyr Phe Gly Pro Leu Cys  
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	Ile Leu Leu Gly Val Val Gly Asn Ser Leu Val Ile His Val Val Ile	
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	Lys Phe Lys Ser Met Arg Thr Val Thr Asn Phe Phe Ile Ala Asn Leu	
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	Ala Val Ala Asp Leu Leu Val Asn Thr Leu Cys Leu Pro Phe Thr Leu	
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	Thr Tyr Thr Leu Met Gly Glu Trp Lys Met Gly Pro Val Leu Cys His	
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	Leu Val Pro Tyr Ala Gln Gly Leu Ala Val Gln Val Ser Thr Ile Thr	
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	Trp Gly Ile Ser Ala Leu Leu Ala Ser Pro Leu Ala Ile Phe Arg Glu	
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[illegible]

27

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 Lys Leu Val Glu Val Gln Val Ile Leu Ile Leu Ala Tyr Cys Ser Ile  
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 Trp Gly Ile Ser Ala Leu Leu Ala Ser Pro Leu Ala Ile Phe Arg Glu

28

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20	Phe Ser Tyr Thr Arg Ile Trp Ser Lys Leu Arg Asn His Val Ser Pro 245 250 255		
25	Gly Ala Ala Ser Asp His Tyr His Gln Arg Arg His Lys Met Thr Lys 260 265 270		
30	Met Leu Val Cys Val Val Val Val Phe Ala Val Ser Trp Leu Pro Leu 275 280 285		
35	His Ala Phe Gln Leu Ala Val Asp Ile Asp Ser His Val Leu Asp Leu 290 295 300		
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45	Ser Thr Phe Ala Asn Pro Leu Leu Tyr Gly Trp Met Asn Ser Asn Tyr 325 330 335		
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	His Ala Cys Ser Ser Arg Ala Gly Gln Met Lys Arg Ile Asn Ser Met	
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	Thr Cys Val Asn Pro Phe Ile Tyr Gly Phe Leu Asn Ile Asn Phe Lys	
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Ala Asn Leu Ala Phe Ser Asp Phe Leu Met Cys Leu Ile Cys Gln Pro  
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Leu Cys Lys Met Leu Thr Phe Ile Gln Cys Met Ser Val Thr Val Ser  
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Ile Leu Ser Leu Val Leu Val Ala Leu Glu Arg His Gln Leu Ile Ile  
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Asn Pro Thr Gly Trp Lys Pro Ser Ile Phe Gln Ala Tyr Leu Gly Ile  
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Val Val Ile Trp Phe Ile Ser Cys Phe Leu Ser Leu Pro Phe Leu Ala  
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Asn Ser Thr Leu Asn Asp Leu Phe His Tyr Asn His Ser Lys Val Val  
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Glu Phe Leu Glu Asp Lys Val Val Cys Phe Val Ser Trp Ser Ser Asp  
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His His Arg Leu Ile Tyr Thr Thr Phe Leu Leu Leu Phe Gln Tyr Cys  
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65	tat aga ggc agc gta gac gac tta caa tac ttc ctg att ggg ctc tat Tyr Arg Gly Ser Val Asp Asp Leu Gln Tyr Phe Leu Ile Gly Leu Tyr 55 60 65	306
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65	tta	act	cta	cat	cca	tcc	aaa	aag	agt	cgg	gac	cag	gca	aaa	ccc	ccc	978
	Leu	Thr	Leu	His	Pro	Ser	Lys	Lys	Ser	Arg	Asp	Gln	Ala	Lys	Pro	Pro	
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	Ser	Thr	Gln	Lys	Trp	Ser	Tyr	Ser	Phe	Ile	Arg	Lys	His	Arg	Arg	Arg	
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	Tyr	Ser	Lys	Lys	Thr	Ala	Cys	Val	Leu	Pro	Ala	Pro	Ala	Gly	Pro	Ser	
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	Gln	Leu	Ser	Pro	Ser	Ser	Lys	Val	Ile	Pro	Gly	Val	Pro	Ile	Cys	Phe	
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	Glu	Val	Lys	Pro	Glu	Glu	Ser	Ser	Asp	Ala	Gln	Glu	Met	Arg	Val	Lys	
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	Arg	Ser	Leu	Thr	Arg	Ile	Lys	Lys	Arg	Ser	Arg	Ser	Val	Phe	Tyr	Arg	
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	Leu	Thr	Ile	Leu	Ile	Leu	Val	Phe	Ala	Val	Ser	Trp	Met	Pro	Leu	His	
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36

Gln Ala Lys Pro Pro Ser Thr Gln Lys Trp Ser Tyr Ser Phe Ile Arg  
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2281

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